

A **V** Claims

1. A magnet coil having a winding (4) that is received in a magnet pot (1), characterized in that the winding (4) is formed of a wire, in particular baked enamel wire, which is provided with a coating that causes the winding (4) to hold together.
2. The magnet coil of claim 1, characterized in that the winding (4) is disposed in a toroidal cup (21).
3. The magnet coil of claim 2, characterized in that two encompassing chamfers (22) are embodied in the interior of the magnet pot (1).
4. The magnet coil of one of the foregoing claims, characterized in that a tubular plastic part (5) is mounted on the magnet pot (1).
5. A method for producing a magnet coil of one of the foregoing claims, characterized in that the winding (4) is inserted into the magnet pot (1) and potted with a low-viscosity potting material (7).
6. A magnet valve for controlling the pumping quantity and/or the course of pumping of a fuel pump, characterized by a magnet coil of one of claims 1-4.

7. A fuel pump for pumping fuel in an internal combustion engine, characterized by a magnet valve of claim 6.

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